

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Approved for use through 10/31/2002. OMB 0651-0032
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

**UTILITY
PATENT APPLICATION
TRANSMITTAL**

For new nonprovisional applications under 37 CFR 1.53(b)

Attorney Docket No. 858610-2003.2
First Inventor De-Chu TANG
Title IMMUNIZATION OF ANIMALS BY TOPICAL APPLICATION OF
A SALMONELLA-BASED VECTOR
Express Mail Label No. EV 001577656 US

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original, and a duplicate for fee processing)
2. ☒ Applicant claims small entity status.
See 37 CFR 1.27.
3. ☒ Specification (Pages 1-55) [Total Pages 60]
(preferred arrangement set forth below)
- Descriptive title of the invention
 - Cross References to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix.
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - 39 Claim(s) (Pages 56-59)
 - Abstract of the Disclosure (Page 60)
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 20]
5. ☒ Oath or Declaration [Total Pages 3]
- ☒ New (unsigned)
- ☐ Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 18 completed)
- i. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s)
named in the prior application, see 37 CFR
1.63(d)(2) and 1.33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76.

7. ☐ CD-ROM or CD-R in duplicate, large table
or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
- a. ☐ Computer Readable Form (CFR)
- b. Specification sequence Listing on:
- i. ☐ CD-ROM or CD-R (2 copies); or
- ii. ☐ paper
- c. ☐ Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. ☐ Assignment Papers (cover sheet & documents(s))
10. ☐ 37 CFR 3.73(b) Statement
- ☐ Power of Attorney
(when there is an assignee)
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)
16. ☐ Request and Certification under 35 U.S.C. 122(b)(2)(B)(i).
Applicant must attach from PTO/SB/35 or its equivalent.
17. ☐ Other:

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional

☒ Continuation-in-part (CIP)
Examiner: J. Wojtach

of prior application No.: 09/563,826
Group/Art Unit: 1632

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

☒ Customer Number or Bar Code Label

20999

(Insert Customer No. or Attach bar code label here)

or ☐ Correspondence address below

Name Thomas J. Kowalski

Name (Print/Type) Thomas J. Kowalski

Signature

Registration No. (Attorney/Agent)

32,147

Date

January 18, 2002

CERTIFICATE OF MAILING - SEPARATE PAPER - PATENT APPLICATION

Attorney Docket No. : 858610-2003.2
Title : **IMMUNIZATION OF ANIMALS BY TOPICAL
APPLICATION OF A SALMONELLA-BASED VECTOR**
Filed : January 18, 2002
Applicant : De-Chu TANG et al.
Mailed : Via Express Mail Label #EV 001577656 US

I hereby certify that the following items are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on the date indicated above and is addressed to:

Commissioner for Patents
Washington, D.C. 20231
Box Application

Enclosed: Utility Application Transmittal
Fee Transmittal
Application for Patent
(60 total pages, 55 pages of specification numbered 1-55, 4 pages, p. 56-59, of claims numbered 1-39, 1 page of abstract, p. 60)
Drawings (20 pages, Figures 1, 2A, 2B, 3A, 3B, 4, 5, 6, 7, 8A, 8B, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18 and 19)
Declaration for Patent Application and Power of Attorney (unsigned)
Check Number 19491 in the amount of \$541.00
Return Receipt Postcard

Charles Jackson
Typed/printed name of person mailing paper or fee

Charles Jackson
Signature

**FEE TRANSMITTAL
for FY 2001**

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT

(\$ 541.00)

Complete if Known

Application Number	To Be Assigned
Filing Date	January 18, 2002
First Named Inventor	De-Chu TANG
Examiner Name	To Be Assigned
Group/Art Unit	To Be Assigned
Attorney Docket No.	858610-2003.2

METHOD OF PAYMENT1. ☐

The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:

Frommer Lawrence & Haug LLP

50-0320

☒Charge any Additional Fee Required
Under 37 CFR 1.16 and 1.17☐Charge the Issue Fee Set in 37 CFR
1.18 at the Mailing of the Notice of
Allowance2. ☒

Payment Enclosed

☒ Check☐ Money Order☐ Other**FEE CALCULATION****1. BASIC FILING FEE**

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
101	740	201	370	Utility filing fee	370.00
106	330	206	165	Design filing fee	
107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	160	214	80	Provisional filing fee	
SUBTOTAL (1)					370.00

2. EXTRA CLAIM FEES

Total Claims	Extra Claim	Fee from below	Fee Paid
39	-20** = 19	9	171.00
Ind. Claims	-3** = 0		0
Multiple Dependent		0	0

** or number previously paid, if greater; for reissues, see below

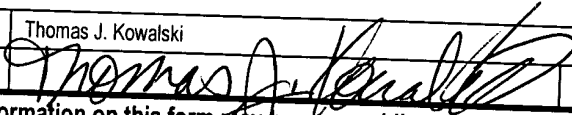
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description
103	18	203	9	Claims in excess of 20
102	84	202	42	Independent claims in excess of 3
104	280	204	140	Multiple dependent claim, if not paid
109	84	209	42	** Reissue independent claims over original patent
110	18	210	9	** Reissue claims in excess of 20 and over original patent
107	510	207	255	Plant filing fee
SUBTOTAL (2) (\$171.00)				

FEE CALCULATION**3. ADDITIONAL FEES**

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or Cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request of reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	400	216	200	Extension for reply within second month	
117	920	217	460	Extension for reply within third month	
118	1,440	218	720	Extension for reply within fourth month	
128	1,960	228	980	Extension for reply within fifth month	
119	320	219	160	Notice of Appeal	
120	320	220	160	Filing a brief in support of an appeal	
121	280	221	140	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use Proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,280	241	640	Petition to revive- unintentional	
142	1,280	242	640	Utility issue fee (or reissue)	
143	460	243	230	Design issue fee	
144	620	244	310	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Petitions related to provisional Applications	
126	180	126	180	Submission of Information Disclosure Statement	
581	40	581	40	Recording each patent assignment per property (times number of properties)	
146	740	246	370	Filing a submission after final rejection (37 CFR 1.129(a))	
149	740	249	370	For each additional invention to be examined (37 CFR 1.129(b))	
Other fee (specify)					
Other fee (specify)					
SUBTOTAL (3) (\$0.00)					

* Reduced by Basic Filing Fee

SUBMITTED BY

Type or Printed Name	Thomas J. Kowalski	Complete (if applicable)		
Signature		Reg. Number	32,147	
	Date	1/18/02	Deposit Account	50-0320

**WARNING: Information on this form may become public. credit card information should not be included on this form.
Provide credit card information and authorization on PTO-2038.**

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

00047266